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1 Quasi-static scoping: sharing variable bindings across multiple lexical scopes   ◼
Shinn-Der Lee, Daniel P. Friedman
March 1993 **Proceedings of the 20th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: 📄 pdf(1.29 MB)   Additional Information: full citation, abstract, references, citings, index terms

Static scoping embodies a strong encapsulation mechanism for hiding the details of program units. Yet, it does not allow the sharing of variable bindings (locations) across independent program units. Facilities such as module and object systems that require cross references of variables therefore must be added as special features. In this paper we present an alternative: quasi-static scoping. Quasi-static scoping is more flexible than static scoping, but has the same encapsulation mechanism ...

2 A java virtual machine architecture for very small devices   ◼
Nik Shaylor, Douglas N. Simon, William R. Bush
June 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems,** Volume 38 Issue 7

Full text available: 📄 pdf(182.85 KB)   Additional Information: full citation, abstract, references, index terms

The smallest complete Java™ virtual machine implementations in use today are based on the CLDC standard and are deployed in mobile phones and PDAs. These implementations require several tens of kilobytes. Smaller Java-like implementations also exist, but these involve compromises in Java semantics. This paper describes a JVM™ architecture designed for very small devices. It supports all the CLDC Java platform semantics, including exact garbage collection, dynamic class loading, and v ...

Keywords: CLDC, JVM, java, limited-memory devices, next generation smart cards

3 Educator's symposiums: A framework for building language interpreters   ◼
Alan Durham, Edson Sussumu, Arlindo Flávio da Conceição
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: 📄 pdf(159.19 KB)   Additional Information: full citation, abstract, references, index terms

This work presents an Object-Oriented framework for the implementation of language interpreters in an educational context. We use this framework to implement different programming language paradigms, including interpreters for the Functional, Object-Oriented and Logic paradigms. This framework focuses its structure on aiding the comprehension of the similarities and differences between the implementation of different paradigms.